

PRODUCTION OF LIQUID CRYSTAL DISPLAY ELEMENT

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Abstract

PROBLEM TO BE SOLVED: To decrease the reaction between amines and a liquid crystal having dielectric anisotropy and to decrease display defects by adding a process for temporarily hardening a sealing material by irradiation with energy prior to a process to drop a liquid crystal.

SOLUTION: A sealing material 2 comprising an acryl resin material is printed on a glass substrate 1 with an ITO electrode being a transparent electrode. The sealing material 2 is temporarily hardened by irradiation with IR rays 3 as the energy for irradiation, and then a liquid crystal material 4 having dielectric anisotropy is dropped onto the area surrounded by the temporarily hardened sealing material. After laminating, the sealing material 2 is again completely hardened by irradiation of energy 6. In the obtd. liquid crystal display element, amines in the sealing material 2 are decreased to a half amt. and the reaction with the liquid crystal 4 is decreased by half because the sealing material 2 is temporarily processed when the liquid crystal 4 is dropped, and therefore, display defects can be decreased.

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